45 OIPE

RAW SEQUENCE LISTING DATE: 11/23/2001 PATENT APPLICATION: US/09/784,674 TIME: 15:54:54

Input Set : N:\Crf3\RULE60\09784674.txt
Output Set: C:\CRF31113\REFHOLD\1784674.raw

SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
            (i) APPLICANT: Shannon, Karen W.
     6
                            Wolber, Paul K.
     7
                            Delenstarr, Glenda C.
     8
                            Webb, Peter G.
     9
                            Kincaid, Robert H.
    10
           (ii) TITLE OF INVENTION: Methods for evaluating oligonucleotide
    12
                                     probe sequences
    13
          (iii) NUMBER OF SEQUENCES: 1165
    15
            (iv) CORRESPONDENCE ADDRESS:
    17
                  (A) ADDRESSEE: Records Manager, Legal Department, Hewlett-Packard
    18
                                 Company M/S 20BO
    19
                  (B) STREET: 3000 Hanover Street
    20
                  (C) CITY: Palo Alto
                                                               ENTERED
    21
                  (D) STATE: CA
    22
                  (E) COUNTRY: USA
    2.3
                  (F) ZIP: 94304
    24
             (V) COMPUTER READABLE FORM:
    26
                  (A) MEDIUM TYPE: Floppy disk
     27
                  (B) COMPUTER: IBM PC compatible
     28
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     29
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     30
            (vi) CURRENT APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: US/09/784,674
c--> 33
                  (B) FILING DATE: 15-Feb-2001
C--> 34
                  (C) CLASSIFICATION: Not available
     35
           (vii) PRIOR APPLICATION DATA:
     38
                  (A) APPLICATION NUMBER: 09/021,701
     39
                  (B) FILING DATE: 10-FEB-1998
     40
          (viii) ATTORNEY/AGENT INFORMATION:
     43
                  (A) NAME: Choi, Wendy A.
     44
                  (B) REGISTRATION NUMBER: 36,697
     45
                  (C) REFERENCE/DOCKET NUMBER: 10971464-1
     46
            (ix) TELECOMMUNICATION INFORMATION:
     48
                  (A) TELEPHONE: 650-236-2386
     49
                  (B) TELEFAX: 650-852-8063
     50
     53 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
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                   (A) LENGTH: 24 base pairs
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                   (B) TYPE: nucleic acid
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                   (C) STRANDEDNESS: single
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                   (D) TOPOLOGY: linear
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     61
            (ii) MOLECULE TYPE: cDNA
           (iii) HYPOTHETICAL: YES
     63
            (iv) ANTI-SENSE: NO
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(ix) FEATURE:

68

DATE: 11/23/2001

TIME: 15:54:54 PATENT APPLICATION: US/09/784,674 Input Set : N:\Crf3\RULE60\09784674.txt Output Set: C:\CRF31113\REFHOLD\I784674.raw (A) NAME/KEY: stem_loop 69 (B) LOCATION: 2..21 70 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 73 24 75 ACTGGCAATC ACAATTGCCA GTAA 77 (2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: 79 (A) LENGTH: 75 base pairs 80 (B) TYPE: nucleic acid 81 (C) STRANDEDNESS: single 82 (D) TOPOLOGY: linear 83 (ii) MOLECULE TYPE: tRNA 85 (iii) HYPOTHETICAL: NO 87 (iv) ANTI-SENSE: NO 89 (vi) ORIGINAL SOURCE: 91 (A) ORGANISM: Saccharomyces cerevisiae 92 (ix) FEATURE: 94 (A) NAME/KEY: tRNA 95 (B) LOCATION: 1..75 96 (C) IDENTIFICATION METHOD: experimental 97 (D) OTHER INFORMATION: /function= "transfer RNA" 98 99 /product= "tRNA-Ala" 100 /evidence= EXPERIMENTAL 101 /anticodon= (pos: 34 .. 36, aa: Ala) 102 /citation= ([1][2]) (ix) FEATURE: 104 (A) NAME/KEY: modified_base 105 (B) LOCATION: 9 106 (C) IDENTIFICATION METHOD: experimental 107 (D) OTHER INFORMATION: /evidence= EXPERIMENTAL 108 109 /frequency= 0.9999 110 /mod_base= mlg 111 /citation= ([1][2]) (ix) FEATURE: 113 (A) NAME/KEY: modified_base 114 (B) LOCATION: 16 115 (C) IDENTIFICATION METHOD: experimental 116 (D) OTHER INFORMATION: /evidence= EXPERIMENTAL 117 118 /frequency= 0.9999 119 /mod_base= d 120 /citation= ([1][2]) (ix) FEATURE: 122 (A) NAME/KEY: modified_base 123 (B) LOCATION: 20 124 (C) IDENTIFICATION METHOD: experimental 125 (D) OTHER INFORMATION: /evidence= EXPERIMENTAL 126 127 /frequency= 0.9999 128 /mod_base= d 129 /citation= ([1][2])

RAW SEQUENCE LISTING

(ix) FEATURE:

131

RAW SEQUENCE LISTING DATE: 11/23/2001 PATENT APPLICATION: US/09/784,674 TIME: 15:54:54

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(A) NAME/KEY: modified_base

186

RAW SEQUENCE LISTING DATE: 11/23/2001 PATENT APPLICATION: US/09/784,674 TIME: 15:54:54

Input Set : N:\Crf3\RULE60\09784674.txt
Output Set: C:\CRF31113\REFHOLD\I784674.raw

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              (D) OTHER INFORMATION: /evidence= EXPERIMENTAL
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190 /frequency= 0.9999
191 /mod_base= p
192 /citation= ([1][2])
         (x) PUBLICATION INFORMATION:
194
              (A) AUTHORS: Holley, R. W.
195
196 Apgar, J.
197 Everett, G. A.
198 Madison, J. T.
199 Marquisee, M.
200 Merrill, S. H.
201 Penswick, J. R.
202 Zamir, A.
              (B) TITLE: Structure of a ribonucleic acid
203
              (C) JOURNAL: Science
204
              (D) VOLUME: 147
205
              (F) PAGES: 1462-1465
206
              (G) DATE: 1965
207
              (K) RELEVANT RESIDUES IN SEQ ID NO:2: FROM 1 TO 75
208
         (x) PUBLICATION INFORMATION:
210
              (A) AUTHORS: Penswick, J. R.
211
212 Martin, R.
213 Dirheimer, G.
              (B) TITLE: Evidence supporting a revised sequence for
214
215 yeast alanine tRNA
              (C) JOURNAL: FEBS Lett.
216
              (D) VOLUME: 50
217
              (F) PAGES: 28-31
218
              (G) DATE: 1975
219
              (K) RELEVANT RESIDUES IN SEQ ID NO:2: FROM 1 TO 75
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223
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225 GGGCGUGUGG CGUAGUCGGU AGCGCGCUCC CUUGGCGUGG GAGAGUCUCC GGUUCGAUUC
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              (C) STRANDEDNESS: single
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              (D) TOPOLOGY: linear
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        (ii) MOLECULE TYPE: cDNA
       (iii) HYPOTHETICAL: YES
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        (iv) ANTI-SENSE: NO
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248 ATGGACTTAG CATTCG
250 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING DATE: 11/23/2001 PATENT APPLICATION: US/09/784,674 TIME: 15:54:54

Input Set : N:\Crf3\RULE60\09784674.txt
Output Set: C:\CRF31113\REFHOLD\I784674.raw

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(B) TYPE: nucleic acid
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              (D) TOPOLOGY: linear
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       (iii) HYPOTHETICAL: YES
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        (iv) ANTI-SENSE: NO
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271 (2) INFORMATION FOR SEQ ID NO: 5:
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               (C) STRANDEDNESS: single
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               (D) TOPOLOGY: linear
277
        (ii) MOLECULE TYPE: cDNA
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       (iii) HYPOTHETICAL: YES
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        (iv) ANTI-SENSE: NO
283
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
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290 TGGACTTAGC AT
292 (2) INFORMATION FOR SEQ ID NO: 6:
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               (C) STRANDEDNESS: single
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               (D) TOPOLOGY: linear
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               (D) TOPOLOGY: linear
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         (ii) MOLECULE TYPE: cDNA
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 323
         (iv) ANTI-SENSE: NO
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 332 GACTTAGCAT TC
 334 (2) INFORMATION FOR SEQ ID NO: 8:
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               (A) LENGTH: 12 base pairs
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               (C) STRANDEDNESS: single
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               (D) TOPOLOGY: linear
 340
         (ii) MOLECULE TYPE: cDNA
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        (iii) HYPOTHETICAL: YES
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/784,674

DATE: 11/23/2001

TIME: 15:54:55

Input Set : N:\Crf3\RULE60\09784674.txt Output Set: C:\CRF31113\REFHOLD\I784674.raw

L:33 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:34 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]